TAGSYS RFID™
e-connecting goods

UHF Tunnel 65x65

User's Guide

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Publishing Information

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Read This First

Welcome to the TAGSYS RFID System. This User's Guide is designed to help you get up and running quickly using this high-quality Radio Frequency Identification (RFID) system. It describes all you need to know about how to install and use the TAGSYS system and its associated applications.

It provides a step-by-step guide for installation of the UHF Tunnel 65x65

This End User's Guide is designed for all CIT (Certified Integrators by TAGSYS) and for TAGSYS Expert Network customers implementing a low-cost and high-performance RFID solution.

This document does not assume any previous knowledge of Radio Frequency Identification (RFID) technology.

Conventions

Symbol	Meaning
	CAUTION: A note that advises users that a specific action could result in the loss of data or damage the hardware. **WARNING**: A note that advises users that a specific action may result in physical harm.
	A note that provides additional information that helps the user perform a task or obtain the best performance from the product.

Abbreviations and Acronyms

ASK	Amplitude Shift Keying
CPU	Central Processing Unit
CRC	Cyclic Redundancy Check
DLL	Dynamic-Link Library
DSP	Digital Signal Processor
ETX	End of Text
HPI	Host Port Interface
I/O	Input/Output
LED	Light Emitting Diode
LSB	Least Significant Bit
MSB	Most Significant Bit
OS	Operating System
PC	Personal Computer
PCB	Printed Circuit Board

PLC	Programmable Logic Controller
RAM	Random Access Memory
RF	Radio Frequency
RFID	Radio Frequency Identification
RFU	Reserved for Future Use
RTF	Reader Talks First
TTF	Tag Talks First
TTL	Transistor-Transistor Logic
TTY	TeleTYpe

Glossary

Anti-Collision Tag capability making it readable while other tags are present in the RF field.

Antenna An aerial that receives and/or transmits radio frequency signals. Aerials are manufactured in a variety of forms, shapes and sizes.

Baud A unit of measure of data transmission speed representing the number of signal changes per second.

BNC Connector Cylindrical metal connector with a copper core that is located at the tip of a coaxial cable, and is used to connect cables together. It attaches by pushing and twisting the outer cylinder on to two locking pins.

Digital Signal Processor This part of the Radio Processing Unit (RPU) performs real-time smart label decoding and manages the Medio L200 configuration.

Dynamic-Link Library Executable routines that are stored as separate files with DLL extensions and executed only when needed by the program.

Host Port Interface Interface used to access the DSP memory.

Monitoring Port Parallel Port granting access to the HPI. It communicates directly with the Radio Processing Unit

Multi-Read See Anti-Collision

Packaged Reader A reader in its casing.

Phase Shift Difference of phase between the 13.56 MHz field emitted by two antennas. This feature is dedicated to rotating field applications and three-dimensional volume smart label detection.

PLC Programmable Logic Controller

Protocol A set of rules governing a particular function, such as the flow of data/information in a communication system (communication between a smart label and a reader or a reader and a PC or host computer).

Radio Frequency Identification System (RFID) An automatic identification and data capture system comprising one or more readers and one or more smart labels in which data transfer is achieved by means of suitable modulated inductive or radiating electromagnetic carriers.

Radio Processing Unit This unit controls the main features of TAGSYS Lx00 reader units, such as the RF channels, the multiplexer and the smart label decoding.

Reader Electronic system for the communication between smart labels and host computers.

Reader Talks First Chip protocol for exchanges between the reader and the chip, whereby the chip waits for a command from the reader to which it responds.

RS-232 Electronic Industries Association (EIA) standard for serial interfaces between computers and peripherals that defines the function, the electrical characteristics and the timing of signals.

RS-485 Electronic Industries Association (EIA) standard for multipoint, differential data transmission. It allows multiple nodes to communicate bi-directionally over 1 or 2 twisted pairs.

Smart Label Small, flexible tag from the 13.56 MHz TAGSYS product line. A smart label is made of a chip connected to an etched antenna.

Tag See Smart Label.

Tag Talks First Chip protocol for exchanges between the reader and the chip, whereby the tag sends information continuously, without waiting for a specific command from the reader.

Transceiver A combined transmitter and receiver.

Transponder A combined receiver/transmitter that automatically transmits a signal when a ‘trigger’ is received by it. The trigger is often a pulse, called an interrogation pulse.

If you need assistance

Please contact your nearest TAGSYS sales representative or the TAGSYS welcome desk at:

Telephone: +33 (0) 4 42 18 89 00

Fax: +33 (0) 4 42 18 89 01

E-Mail: tagsys@tagsysrfid.com

Website: http://www.tagsysrfid.com

Contact for Comments

We welcome your feedback to help us provide high quality documentation.

For technical comments, please contact our welcome desk:

Telephone: +33 (0) 4 42 18 89 00

Fax: +33 (0) 4 42 18 89 01

E-Mail: tagsys@tagsysrfid.com

Please remember to quote the Document Reference Number DOC12454A0, your job title and your company.

Quality Issues

TAGSYS implements stringent quality controls at all stages of its manufacturing process. However, should you find a defect with this product, please notify your TAGSYS Quality Service representative using the dedicated Product Return Form.

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1 For Your Safety

1.1 General Use

The UHF Tunnel 65x65 is designed to be rugged and reliable and to provide years of trouble-free service. Please observe the following general tips:

- Take care not to scratch the device. Keep the device clean. When working with the device, use only TAGSYS-approved accessories.
- This device is not waterproof and should not be exposed to rain or moisture. Under extreme conditions, water may enter the circuitry.
- Take care not to drop the device or subject it to any strong impact.
- Protect the device from extreme temperatures. For example, do not leave the device in front of a window on a hot day, and keep it away from heaters and other heat sources.
- Do not store or use the device in any location that is extremely dusty, damp, or wet.
- Use a soft, damp cloth to clean the device. If the surface of the device becomes soiled, clean it with a soft cloth moistened with a diluted window-cleaning solution.

1.2 Care and Maintenance

This device is a product of superior design and should be handled with care. The suggestions below will further increase the lifetime of this device.

- Keep the device and all parts and accessories out of the reach of small children.
- Keep the device dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use or store the device in dusty, dirty areas. Its moving parts can be damaged.
- Do not store in hot areas. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store in cold areas. When the device warms up (to its normal temperature), moisture can form inside the device, which may damage electronic circuit boards.
- Do not attempt to open the device. Non-professional handling of the device may damage it.
- Handle the device with care. Shocks may break internal circuit boards.
- Do not clean the device with harsh chemicals, cleaning solvents or strong detergents. Gently wipe the device with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the device. Paint may clog the device’s moving parts and prevent proper operation. Paint with metallic contents may limit device performance.

1.3 Important Safety Information

1.3.1 Operating Environment

Follow all special regulations that are applicable in any area and always switch off the device whenever its use is prohibited, or when it may cause interference or danger.

When connecting the device or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with all RF equipment, users are advised that the equipment should only be used in its normal operating position.

2 Certification

2.1 Occupational Health

TAGSYS UHF Tunnel 65x65 has been designed and tested to be in conformity with the limits given in the European Standard EN 50364 “Limitation of human exposure to electromagnetic fields from devices used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications” in conjunction with the European Standard EN 50357 describing how to evaluate the exposure level.

2.2 Regulatory notices

An RFID system typically composed of an RF emission device connected to an antenna is subject to national regulations that may differ by country.

2.2.1 In Europe (CE and RTTE directives)

The UHF Tunnel 65x65 (EU) complies with the European EMC directive. (CE Declaration of Conformity granted).

The UHF Tunnel 65x65 (EU) complies with the requirements of the Telecommunication Terminal Equipment Act (FTEG) and the RTTE Directive 1995/5/CE.

The UHF Tunnel 65x65 (EU) has been designed and tested to be in conformity with EN 302 208-2 v1.2.1, EN 301 489-3 v1.4.1, EN 60950-1, EN 50357 and EN50364 specifications.

It is the responsibility of the Buyer to use the UHF Tunnel 65x65 (EU) as described in this User’s Guide or TAGSYS Documentation.

Any modification of the UHF Tunnel 65x65 (EU) is prohibited without the written consent of TAGSYS. Unauthorized modification may void the conformity of the equipment to CE and RTTE Directives and will void the TAGSYS warranty.

If the UHF Tunnel 65x65 (EU) is further integrated in a different product, it is the responsibility of the manufacturer of this complementary product to obtain the required approvals for this product.

2.2.2 In USA (FCC directive)

UHF Tunnel 65x65 (US)

WARNING TO USERS IN THE UNITED STATES

FEDERAL COMMUNCIATIONS COMMISSION (FCC) RADIO

INTERFERENCE STATEMENT 47 CFR Section 15.105(b)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

NO UNAUTHORIZED MODIFICATIONS

47 CFR Section 15.21

CAUTION: This equipment may not be modified, altered, or changed in any way without signed written permission from TAGSYS SA. Unauthorized modification may void the equipment authorization from the FCC and will void the TAGSYS warranty.

USA REPRESENTATIVE

Douglas Karp – Tagsys USA - 1006 W. 9th Avenue, Suite 30, King of Prussia, PA 19406

Operation is subject to the following two conditions: (1) The system devices may not cause harmful interference, and (2) The system devices must accept any interference received, including interference that may cause undesired operation.

2.3 RoHS and WEEE directives

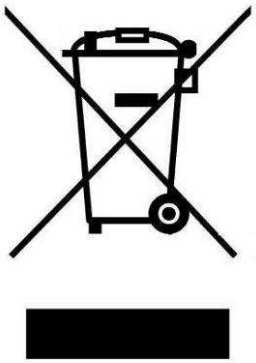
2.3.1 RoHS (Restriction of the uses of certain Hazardous Substances)

TAGSYS certifies that this product is compliant with the European Directive 2002/95/EC for the restriction in Electric and Electronic Equipments (RoHS) of the use of the following hazardous substances:

- Lead
- Mercury
- Cadmium
- Hexavalent Chromium
- Polybrominated biphenyl flame retardants
- Polybrominated diphenyl ether flame retardants

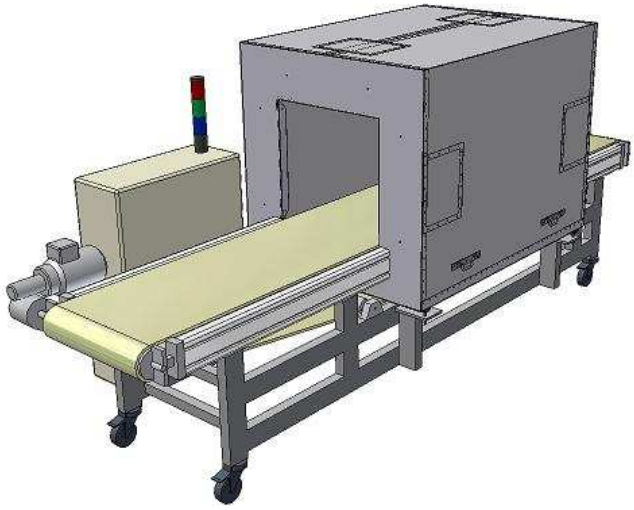
This declaration is based on information provided by our suppliers and subcontractors.

2.3.2 WEEE (Waste Electrical and Electronic Equipment)



This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE).
This means that this product must be handled pursuant to European Directive 2002/96/EC in order to be recycled or dismantled to minimize its impact on the environment.
For further information, please contact your local or regional authorities.

3 System Overview



The UHF Tunnel 65x65 is intended for Original Equipment Manufacturer (OEM) and end users applications.

It is designed to identify batches of tagged items carried by a conveyor through the tunnel. Items can be either in bulk (in carton boxes, bags…), or in stacks.

Typical uses include check-in or check-out of items stored in carton boxes in a distribution center.

Whatever the configuration, the UHF Tunnel 65x65 will be installed and set up by a CIT (Certified Integrators by TAGSYS).

3.1 Main Features

- Optimized design for EPCGlobal UHF Class1 Gen2 or ISO18000-6C chips.
- Shielded design and specific antenna arrangement to guarantee a 3D reading in any tag orientation.
- 110VAC/60 Hz and 230VAC/50Hz versions.
- Ethernet communication to the host system.
- SW controllable stacklight indicator.
- SW controllable conveyor belt speed and direction.
- SW accessible photoelectric sensor upstream and downstream of the tunnel.
- Integrated panel PC (optional).

3.2 Brief Description

Figure 1 : UHF Tunnel 65x65

Being a standalone solution, TAGSYS UHF Tunnel 65x65 does not require additional equipment to operate.

The UHF Tunnel 65x65 is made of three parts:

- The tunnel, implementing the shielded antenna system.
- An electrical cabinet including the RFID reader and other devices managing the conveyor belt, photoelectric sensors and stacklight.
- The conveyor, with a soft PVC belt or a plastic modular belt.

To operate, the UHF Tunnel 65x65 needs a power supply, single-phase 110-120V AC / 60 Hz or 230V AC / 50Hz (depending on the version). Power consumption is lower than 500W.

It is advised not to open tunnel to modify the antennas arrangement at the risk of loosing performance and may conduct the TAGSYS TUNNEL READER to be unserviceable.

4 Installation

This equipment is intented for indoor use only, under the conditions described in this document.

4.1 Mechanical Installation

After having defined the location for the UHF Tunnel 65x65, immobilize it by applying the brakes on at least two of the four conveyor wheels.

Conveyor elevation can be adjusted by acting on the feet position (2 screws on each foot).

Then connect power cable to the electrical network, and connect the host PC to one of the available ports of the Ethernet switch inside the electrical cabinet.

4.2 Software Installation

The UHF Tunnel 65x65 is designed to be integrated with Tagsys' RFID middleware : *e-connectware*.

Regardless of the application or industry, *e-connectware* allows IT departments to easily monitor and manage a globally distributed RFID device infrastructure - all from the desk of the IT Administrator.

Through a set of advanced management and administrative functions, *e-connectware* efficiently enables organizations to leverage the true value of RFID data to run their business. TAGSYS *e-connectware* filters and delivers meaningful RFID event read data to drive actionable business decisions and improve operational efficiencies while simultaneously driving down IT administration and management costs.

5 Operation

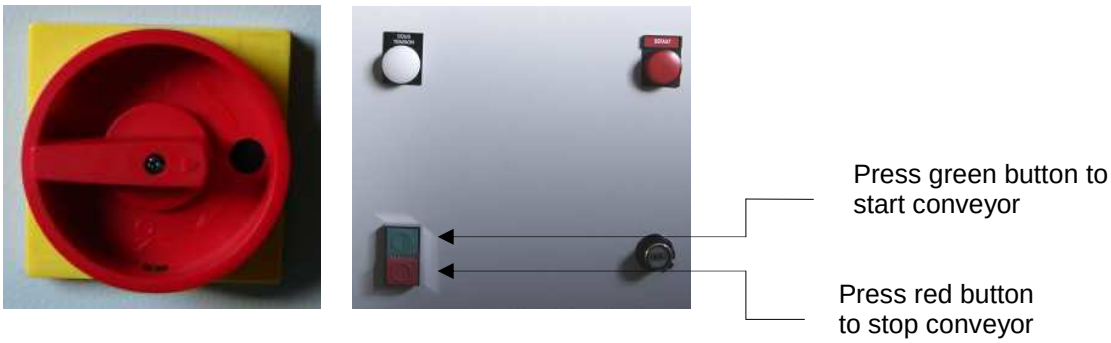
5.1 Starting the System

- To power on the system, switch on the main power switch.
- To start and stop the conveyor, use the red and green pushbuttons.

Left picture shows the main power switch located on the edge of the electric cabinet.

Right picture shows the START/STOP push buttons for the conveyor.

Figure 2: Switches and push buttons



5.2 Normal Operation

No operating procedures are required. The system continues to operate as long as power is supplied.

Avoid letting the conveyor running all day long if not necessary.

5.3 Shutdown

The conveyor belt can be stopped by pressing the red pushbutton on the front panel of the electrical cabinet, then turning off the main power switch.

In case of emergency push the red button located at the top of the electric cabinet to stop the conveyor belt.

Figure 3: Emergency button

6 Technical Specifications

6.1 Technical Specifications

Table 1: Technical Specifications

Parameter	Value
Size (L x W x H)	7000mm x 1050mm x 1650mm
Weight	500kg
Operating Temperature	0 ℃ to 55 ℃ (32 ℉ to 131 ℉)
Storage Temperature	–20 ℃ to 70 ℃ (–4 ℉ to 158 ° F)
Power Supply	230VAC, 50 Hz for UHF Tunnel 65x65 (EU) 110VAC, 60 Hz for UHF Tunnel 65x65 (US)
Power Consumption	Up to 500W (maximum)
Operating Frequency	865MHz-868MHz for UHF Tunnel 65x65 (EU) 902MHz-928MHz for UHF Tunnel 65x65 (US)
Air Protocol	EPCglobal UHF Class 1 Gen2 ISO18000-6C
Transmit Power	Up to 30dBm
Host Interface	10/100 Ethernet (RJ-45)

7 Warranty Conditions

TAGSYS warrants that this Product shall comply with the functional specifications set forth herein for a period of one year from the date of delivery to the Buyer.

This warranty is valid for the original Buyer of the Product and is not assignable or transferable to any other party.

TAGSYS cannot be responsible in any way for, and disclaims any liability in connection with the operation or performance of:

- Any product in which the Product is incorporated;
- Any equipment not supplied by TAGSYS which is attached to or used in connection with the Product; or
- The Product with any equipment

This warranty does only cover the Product to the exclusion of any such other equipment.

Optimal operation and performance of the Product are obtained by using TAGSYS' readers, by applying TAGSYS installation guidelines and by having your installation reviewed by a TAGSYS' technical consultant.

TAGSYS warranty does not cover the installation, maintenance or service of the Product and is strictly limited to the replacement of Products considered as defective by TAGSYS and returned according to the return procedure defined below; in such case, TAGSYS will, at TAGSYS' option, either replace every defective Product by one new Product or refund the purchase price paid by Buyer to TAGSYS for the defective Product.

7.1 Warranty Exclusions

- Defects or damages resulting from storage of the Product under conditions which do not comply with TAGSYS specifications or normal usage
- Defects or damages resulting from use of the Product in abnormal conditions (abnormal conditions being defined as any conditions exceeding the ones stated in the product specifications).
- Defects or damages from misuse, accident or neglect.
- Defects from improper testing, operation, maintenance or installation.
- Defects from alteration, modification except modifications or adjustments specifically described in this Product reference guide, adjustment or repair, or any attempt to do any of the foregoing, by anyone other than TAGSYS.
- Any action on Product that prevents TAGSYS from performing an inspection and test of the Product in case of a warranty claim.
- Tampering with or abuse of the Product.
- Any use or incorporation by the Buyer or a third party of TAGSYS' Product into life saving or life support devices or systems, or any related products, TAGSYS expressly excludes any liability for such use.

7.2 General Provisions

This warranty sets forth the full extent of TAGSYS responsibility regarding the Product.

In any event, TAGSYS warranty is strictly limited to (at TAGSYS' sole option) the replacement or refund of the Products purchase price to TAGSYS, of Products considered as defective by TAGSYS.

The remedy provided above is in lieu and to the exclusion of all other remedies, obligations or liabilities on the part of TAGSYS for damages, whether in contract, tort or otherwise, and including but not limited to, damages for any defects in the Products or for any injury, damage, or loss resulting from such defects or from any work done in connection therewith or for consequential loss, whether based upon lost goodwill, lost resale profits, impairment of other goods or arising from claims by third parties or otherwise.

TAGSYS disclaims any explicit warranty not provided herein and any implied warranty, guaranty or representation as to performance, quality and absence of hidden defects, and any remedy for breach of contract, which but for this provision, might arise by implication, operation of law, custom of trade or course of dealing, including implied warranties of merchantability and fitness for a particular purpose.

7.3 How to Return Defective Products

The Buyer shall notify TAGSYS of the defects within 15 working days after the defects are discovered.

Defective Products must be returned to TAGSYS after assignment by a TAGSYS Quality Department representative of an RMA (Return Material Authorization) number. No Products shall be returned without their proof of purchase and without the acceptance number relating to the return procedure.

All Products must be returned in their original packaging.

All Products shall be returned with a report from the Buyer stating the complete details of the alleged defect.

Call +33 (0) 4 42 18 89 36 for return authorization and shipping address.

If returned Products prove to be non-defective, a charge will be applied to cover TAGSYS' analysis cost and shipping costs.

If the warranty does not apply for returned Products (due to age, or application of a warranty exclusion clause), a quote for replacement will be issued, and no replacement will be granted until a valid purchase order is received. If no purchase order is received within 30 days after the date of TAGSYS quote, TAGSYS will return the products and charge the analysis cost and shipping costs.

All replaced Products shall become the property of TAGSYS.

The Product Return Form is included on the following page. This form should accompany any product you need to return to TAGSYS for analysis in the event of a problem.

Product Return Form

Customer Profile:

Company: .....
Address: .....
.....
.....
City & State:.....
Zip Code: .....
Country: .....

Contact Name: .....
Contact e-mail: .....
Contact Phone: .....
Contact Fax: .....

Order identification:

Product Name:.....
Order Number (OEF):.....

Invoice Number: .....
Return Quantity: .....

Reason for return:

.....
.....
.....
.....
.....

To inform TAGSYS of this return, please email it to
RMA@tagsysrfid.com
Address to ship the product with this document attached:
TAGSYS
QUALITY DEPARTMENT
785 Voie Antiope, Athélia III,
13600 La Ciotat, France

To inform TAGSYS of this return, please also fax it to your Customer Service Representative
+33 (0) 4 42 18 89 01

Return Procedure:

The product returned will go through stringent quality controls.
A final analysis report will be sent to you as soon as possible.
Please contact your Quality Service representative for further details.
+33 (0) 4 42 18 89 36